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ABSTRACT

Graduation requirements in the Delphian School are presented for primary, elementary, middle, and secondary levels. The Delphian curriculum is based on eight dynamics (fundamental urges or drives that motivate conduct); requirements are not stated in terms of time in the course room or grades or required courses, but rather in terms of abilities. This document describes the fundamental requirements in terms of the eight dynamics and the four educational levels. Emphasis in placed on ability to study, to evaluate data logically, and to act responsibly on the basis of the evaluation. (DS)

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# Delphian Curriculum

## Graduation Requirements

by Alan H. Larson, assisted by Dave Hendry

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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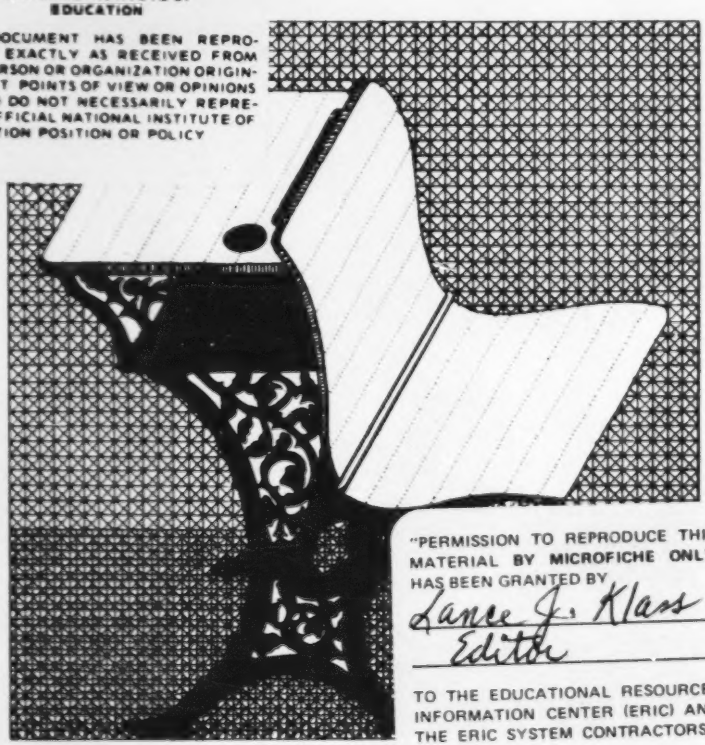

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**Delphian Curriculum** | Graduation Requirements

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# Delphian Curriculum

## Graduation Requirements

In the context of a broad national decline of standards and results in education, the Delphian Foundation and School in Sheridan, Oregon (Delphi) were established with the aim of revitalizing standards and improving results by providing an excellent education in a safe environment. The excellence of education at Delphi is based on three things: the application of the educational philosophy and study technology developed by L. Ron Hubbard; the broad curriculum of courses, developed by the Foundation, which are themselves based on study tech; and the high standards of the School.

The Delphian Curriculum is used by various schools dedicated to a revitalization of standards in education. These high standards are set by the requirements for graduation at each level: Primary, Elementary, Middle, and High Schools. The Curriculum is designed to enable graduates of a Delphian school to causatively handle both their physical and social environments. More than that, graduates are expected to be able to improve their environment, and to lead others in so doing.

The Delphian Curriculum Graduation Requirements are distinctive in three aspects:

First, the requirements are broken down into classes called "dynamics." A full explanation of that term is given on pages 36-38 of the book *Fundamentals of Thought*, by L. Ron Hubbard.*

Secondly, the requirements are not stated in terms of time in the course room, or grades, or even required courses, they are stated in terms of *abilities*. Delphian school students learn to apply what they study. Every course includes the practical use of the information presented, and completion of a course requires that a student demonstrate he has gained the ability to use the subject. This extends to graduation as well. Below many of the abilities given is a list of related subject areas which should help to make clear what that ability involves. (The subject areas listed are not intended to be exhaustive, but rather illustrative.)

Finally, the requirements are quite challenging. Not only do we require an excellent command of the basics, but we also require competency in a broad range of areas built on the basics. If you are unfamiliar with just how successful Delphian schools are, it may seem unrealistic that a student can meet these requirements in less than two or three decades. In fact, it is quite realistic for a student who knows how to study and is well supervised through a curriculum such as the Delphian Foundation's to achieve this in 12 years or less.

*See note on next page.

Implicit in the Delphian Curriculum at all levels, and fundamental to it, are training in the ability to study, and training in the ability to evaluate data logically and then act responsibly on the basis of that evaluation. The technology of data evaluation was developed and tested by L. Ron Hubbard in the administration and management of organizations. Together with study tech, data evaluation enables students to learn rapidly and to use what they learn in handling their environments.

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**Note:**

In case the reference is not available to you, the following brief definition of dynamics has been excerpted from the book *Science of Survival*, by L. Ron Hubbard:

*"Man apparently survives, as do other living organisms, along eight separate channels. These channels are called the dynamics, and these eight represent the eight fundamental urges or drives which motivate conduct.*

"**Dynamic one** is the urge of the individual to survive as himself.

"**Dynamic two** is the urge of the individual to survive through his progeny. The second dynamic has two main subdivisions, the sexual act and the creation of children and their rearing.

"**Dynamic three** is the urge of the individual to survive as a member of a group, whether civil, political, racial, or just a number of individuals who compose a group.

"**Dynamic four** is the urge of the individual to reach the highest survival in terms of mankind and is the urge of mankind to survive as man.

"**Dynamic five** is the urge to survive as a life organism and embraces all living organisms.

"**Dynamic six** is the urge to survive as part of the physical universe and includes the survival of the physical universe.

"**Dynamic seven** is the urge toward survival in a spiritual sense.

"**Dynamic eight** is the urge toward survival as part of or ward of a Supreme Being. . ."

L. RON HUBBARD

## Primary School

# Dynamics

1. Can identify vital parts of major body systems (on a real human body) and describe basic function and structure involved.

*Circulatory* *Reproductive* *Glandular*
*Skeletal* *Digestive* *Nervous*
*Muscular*

2. Can cook simple foods to prepare a breakfast, lunch, and dinner. Can set a table and clean up afterwards; has good table manners.

*Tableware and its use* *Broiling* *Boiling*
*Manners* *Frying*
*Food storage and spoiling* *Washing Dishes* *Baking*

3. Can do routine household cleaning chores and keep own space neat and clean.

*Dusting* *Mopping* *Sweeping*
*Vacuuming*

4. Can keep own body clean and dress self appropriately.

*Bathing* *Tooth care* *Clothing (types)*

5. Can sew simple things by hand.

6. Can avoid accidents and handles them well when they occur.

*Traffic Safety* *Contact Assists* *Poisons*
*Pedestrian* *Household Safety* *Care with tools*
*Bicycles* *Glass*

7. Can draw a picture showing family tree through uncles and cousins.

8. Can control body well in physical actions.

*Running* *Throwing and catching* *Dance*
*Jumping* *Bicycle riding*
*Tumbling*

1. Can read smoothly (to self and aloud). Can spell simple phonetically-regular words and a basic vocabulary of sight words. Can use a simple dictionary.

2. Can print clearly and compose simple, clear essays to convey ideas, can make a simple and clear presentation to a group.

| | | |
|---|---|---|
| *Printing* | *Noun* | *Conjunctions* |
| *Main Parts of Speech* | *Verb* | *Punctuation* |
| | *Modifiers* | |

3. Can carry on a simple conversation in a foreign language.

| | | |
|---|---|---|
| *French* | *Spanish* | *German* |
| *Italian* | | |

4. Can participate well as a member of an organized group.

| | | |
|---|---|---|
| *Purposes* | *Command lines* | *Morale* |
| *Rules* | *Communication lines* | *Production* |
| *Ethics* | | |

5. Can locate (on a globe) major geographic areas, recognize types of peoples and tell a bit about their cultures.

| | | |
|---|---|---|
| *Major Continents* | *Slavic, Black, Indian Asian, etc.* | *Technology level* |
| *Oceans* | | *Values* |

6. Can take part in mock TV and radio programs and put together simple newspapers and magazines.

*Media*

7. Can use telephone independently for long distance calls and demonstrate understanding of long distance communication by telephone, radio, and telegraph.

8. Can demonstrate understanding of basic aspects of commerce and transport lines (e.g., from farm to table.)

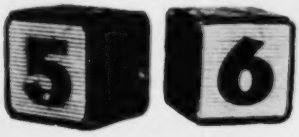
| | | |
|---|---|---|
| *Production* | *Selling* | *Transportation types* |
| *Distribution* | *Geography* | |

9. Can recognize major parts of town or city and demonstrate functions.

| | | |
|---|---|---|
| *School* | *Thoroughfares* | *Residential districts* |
| *Post Office* | *Town Hall* | *Police* |
| *Stores* | *Parks* | *Sanitation* |

10. Can demonstrate understanding of what money is and how it is earned (exchange); can make correct change for purchases less than a dollar.

11. Participates in physical education classes.




1. Can take care of an animal so it survives well.

2. Can take care of a plant so it survives well.

3. Understands and can trace basic food chains.

4. Can recognize common insects, birds, mammals, fish; knows what they live on and how they affect man.

5. Can draw an animal skeleton.

6. Can identify major parts of cross sections of a tree.

7. Can find a variety of seeds and has gotten some to grow.

8. Can demonstrate understanding of the group structure of a social insect (ant, bee, etc.), and can recognize such.

9. Can identify common plants in environment.

10. Can ride a horse.

11. Can recognize major parts of a farm and demonstrate understanding of function of each.

| | | |
|---|---|---|
| *Livestock* | *Storage* | *Fields* |
| *Orchards* | *(silos, barns)* | *Machinery* |

12. Can count to 1,000, add and subtract whole numbers to 500, measure simple fractional quantities, multiply through 5 x 5.

| | |
|---|---|
| *Sets (e.g., of 10)* | *Decimal system* |

13. Can measure sizes, volumes, weights, and speeds in common units.

| | | |
|---|---|---|
| *Inches, feet, centimeters* | *Quarts, gallons, liters, bushels* | *Ounces, pounds, tons, kilograms* |
| *Ounces, cups, pints,* | *Ft/sec, meters/sec* | |

14. Can tell time (including date and day of week), explain day/night cycles, phases of the moon and tides astronomically.

15. Can design and build a simple structure with hand tools.

| | | |
|---|---|---|
| *Design and dimensioning* | *Hand tools* *Geometry* | *Glue, nails, screws* |

16. Can draw and follow simple maps; can read and plot a line graph.

17. Can define and demonstrate understanding of the terms "matter," "energy," "force," and "work," and can build a simple engine and explain theory (qualitative).

18. Can demonstrate understanding of energy flow in system sun - trees - boiler - hot water - warm room, and matter flow in hydrologic cycle.

19. Can recognize and draw or show in clay major geometric shapes.

| | | |
|---|---|---|
| *Line* | *Curve* | *Sphere* |
| *Triangle* | *Circle* | *Cylinder* |
| *Square* | *Oval* | *Cube* |
| *Rectangle* | | |

20. Can describe weather and do rudimentary weather prediction.

| | | |
|---|---|---|
| *Temperature* | *Precipitation* | *Sky condition* |
| *Wind direction* | | |

21. Can build a simple electric circuit (battery-switch-light bulbs) and demonstrate Ohm's law.

22. Can focus binoculars or telescope and use them.

23. Can read dials.

24. Can crochet.

25. Can mix paints to control colors.

26. Can use gardening tools - rake, spade, etc.

27. Can ride a bike well.

1. Can sing songs and play simple melodies on an instrument, maintaining rhythm.

2. Comfortable with several art media (watercolor, clay, collage, etc.).

3. Able to recognize and write down various rules of his group.

4. Able to recognize and write down some of his own ethical rules.

5. Can make up and tell stories based on his favorite books.

6. Participates in group plays and group singing.

7. Can write poems and short stories.

8. Can dance and march to a song, maintaining rhythm.

## Elementary School

## Dynamics

1. Can deliver first aid well in several situations.

*Anatomy and physiology*
*Poisons*
*Bleeding*
*Shock*
*Simple assists*
*Artificial respiration*

2. Can point out and describe human body systems (function and structure) in more detail, including interrelations and overall metabolism.

3. Can identify, explain, and responsibly handle toxic substances (includes substances that are not toxic to man but to other life forms, and should include antibiotics).

4. Understands about how the body handles foreign substances (includes antibodies, vaccines, white corpuscles, etc.) and how to keep the body in good shape regarding these.

5. Can fully handle personal hygiene and appearance and keep own living space clean (without constant supervision), as well as completely handle household cleaning.

*Clothing Care* *Grooming* *Laundry*
*Purchase*
*Storage*

6. Can plan and cook an adequate diet for a family for a week.

*Nutrition* *Cooking*

7. Can mend and sew simple garments.

8. Can responsibly budget own income and expenses for a week.

*Money* *Budgets* *Decimal arithmetic*
*Economics*

9. Can care for younger children with some supervision.

*Control* *Ethics* *Communication*
*Safety*

10. Can fully care for self on overnight camping trip.

*Equipment* *Campfires and cooking* *Handling an unknown environment*
*Safety*

11. Participates competitively in at least three individual sports activities (swimming required).

*Horsemanship* *Tumbling and gymnastics* *Bicycling*
*Swimming* *Archery*
*Track and field* *Tennis*

11

1. Reads children's books freely and broadly.

2. Can communicate clearly and effectively in speech and in writing.

| | | |
|---|---|---|
| *Parts of speech including conjugations of verbs and declensions of nouns; sentence construction* | *Composition* | *Typing (can operate typewriter)* |
| | *Handwriting* | *Presentations to groups* |
| | *Use dictionary well* | |

3. Can speak, read, and write simply in one foreign language, can carry on a simple conversation in another.

| | | |
|---|---|---|
| *French* | *Spanish* | *German* |
| *Latin* | *Greek* | |

4. Can participate in "dramatizations" of a law-making body (history).

5. Can participate in "dramatizations" of a court (history).

6. Can participate in "dramatizations" of an election (history).

7. Knows the difference between good control and "bad" or non-control and can lead elementary groups on "excursions" (or be led).

8. Can recognize and describe major political, geographical, and cultural features of local area, nation, and world.

| | | |
|---|---|---|
| *Political divisions (states, countries)* | *Resources* | *Traditions* |
| | *Maps* | *Lifestyle* |
| *Types of government* | *Technology level* | *Currencies and exchange rates* |
| | *Values* | |
| *Trade* | | |

9. Can recognize and describe major aspects of rural and urban scenes and steps in between.

10. Can recognize, locate, and describe major historical events on local, national, and global scale; can describe major events on geologic time scale.

11. Can demonstrate understanding of the exchange flows (money and commodities) of a business (shop, farm, etc.)

12. Can write simple proposals that confront exchange (parents, group, etc.).

13. Can translate the cost of an item into at least three foreign currencies.

14. Can figure out what would be fair exchange in bartering items.

15. Can show how one might get around in the world with various vehicles - rowboat, sail boat, short range plane, amphibian (land/water), bicycle, horse, etc. (history and geography).

16. Can draw rough world map, identify continents and major population centers on each.

17. Can run a simple business.

| | | | |
|---|---|---|---|
| *Economics* | *Exchange* | | *Simple accounting* |
| *Promotion* | *Sales* | | *Business ethics* |

18. Participates competitively in three team sports.

| | | |
|---|---|---|
| *Baseball* | *Volleyball* | *Basketball* |
| *Soccer* | *Football* | *Softball* |

1. Can tend a garden and livestock

2. Can compost and demonstrate understanding of its theory.

3. Can take a square foot of woodland, identify the insects and plants and explain how they interrelate.

4. Can find habitat or signs of all major indigenous mammals and explain how they interrelate.

5. Can cross two plant types to get a hybrid (theory, history).

6. Can use a microscope to count blood cells and identify bacteria.

7. Can use a microscope (telescope) to identify different kinds of micro-organisms (celestial bodies); can describe the interaction of these with man.

8. Can locate and identify major indigenous plant and animal life forms and describe their seasonal and life cycles.

9. Can identify major forms of ocean and shore life and describe their relationships (food chain).

10. Can describe creation and main uses of fossil fuels, build a solar still, small windmill, small waterwheel.

11. Can describe structure, function, and means of propulsion of various transportation vehicles.

| | | |
|---|---|---|
| *Internal combustion* | *Automobile* | *Rocket* |
| *Propeller and jet propulsion* | *Truck* | *Ships* |
| | *Airplane* | *Sailboats* |
| | *Helicopter* | |

12. Can fully handle arithmetic, do exponents, estimate square and cube roots. Can use a hand calculator well. (Must include application in real situations.)

13. Can define basic geometric shapes mathematically in geometric terms; can compute perimeters, areas, and volumes of regular solids.

14. Can demonstrate basic laws of physics quantitatively and use them to predict motion.

15. Can use all six types of simple machines to do work with reduction of force.

16. Can make and interpret graphs.

*Line graphs* *Bar graphs* *Circle graphs*

17. Can follow a map by compass; can find own way around a city or across country with a road map.

18. Can take and develop good black and white photographs.

19. Can define and demonstrate the terms "acid" and "base" chemically, can test liquids for acid/base.

20. Can make: battery, electric motor, telegraph, mechanical clock, refracting telescope and magnet.

21. Can measure and keep track of all major weather variables.

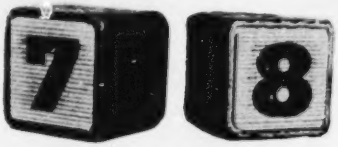
22. Can design and build dog house, bird house, or another structure of similar complexity with hand tools.

23. Can dismantle, clean, lubricate and replace a bicycle hub.

24. Can work leather (belts, etc.).

25. Can tie knots.

26. Can shoot a rifle.




1. Can play one instrument well, another simply; can compose simple songs; can direct music.

| | | |
|---|---|---|
| *Percussion* | *Piano* | *Woodwinds* |
| *Music theory* | *Guitar* | *Brass* |
| *Rhythms* | | |

2. Participates in plays; can write a short play.

3. Can demonstrate an understanding of the dynamics and ethics; knows what a code is and can demonstrate understanding of at least three.

*Bill of Rights; others*

4. Can write short stories and long poems.

5. Can create to own satisfaction in three art forms.

| | | |
|---|---|---|
| *Elements of Art* | *Balance* | *Drawing* |
| *Line* | *Perspective* | *Textiles* |
| *Color* | *Ceramics* | *Sculpture* |
| *Shape* | *Painting* | *Woodcarving* |

6. Can create challenging games.

7. Can demonstrate understanding of religion and knows main tenets of at least two religions.

8. Can dance several styles.

| | | |
|---|---|---|
| *Folk* | *Ballroom* | *Tap dance* |
| *Ballet* | | |

9. Has a wide reading range in literature.

## Middle School

# Dynamics

1. Can handle well all common situations requiring first aid.

| | |
|---|---|
| *Life saving/ swimming* | *Assists* |

2. Can maintain own health and personal appearance well.

| | | |
|---|---|---|
| *Exercise* | *Interaction with* | *Clothing* |
| *Posture* | *doctors and* | *Sewing* |
| *Nutrition* | *hospitals* | *Grooming* |
| *Drugs* | | |

3. Can do routine household repairs, and refinish/upholster furniture.

4. Can babysit responsibly.

| | | |
|---|---|---|
| *Control* | *Ethics* | *Communication* |
| *Safety* | | |

5. Shops well.

| | | |
|---|---|---|
| *Quality evaluation* | *Discounts and sales* | *Wholesale and retail stores* |

6 Can budget own income and expenses, handle checking and savings accounts.

7. Participates competitively in at least two individual sports.

| | | |
|---|---|---|
| *Tennis* | *Track and field* | *Bicycling* |
| *Archery* | *Gymnastics* | |

1. Can write very well and clearly with no grammatical or spelling errors in a variety of compositional forms; can make an interesting and effective public presentation; takes notes well.

| | | |
|---|---|---|
| *Grammar* | *Composition* | *Public Speaking* |
| *Typing (30 words/min.)* | *Spelling* | |

2. Can speak, read, and write first foreign language well enough to get along on it alone; can speak, read, and write simply in second language.

| | | |
|---|---|---|
| *French* | *Spanish* | *German* |
| *Latin* | *Greek* | |

3. Can demonstrate understanding of government at local, state, national and international level in some detail and knows how things are accomplished by or through governments.

4. Can demonstrate understanding of own major civil rights and responsibilities as a citizen and the process of administration of civil and criminal law.

5. Can write comprehensive essays and dramas or give talks about the history of the U.S. and own state that show the evolution of the major parts of the organizational structure.

6. Knows Amendments to the Constitution, and how they apply to self.

7. Participates in "dramatization" of wide ranging areas in local, U.S. and world history.

8. Can trace the economic causes of two wars (or more).

9. Can recognize and describe major political, geographic, and cultural features of local area, nation and world in detail, showing transportation centers and arteries.

10. Can demonstrate understanding of national economics.

| | | |
|---|---|---|
| *Taxes* | *National debt* | *Recessions* |
| *Funding* | *Inflation, deflation* | *Banking structure* |

11. Can operate well as a member of an organized group.

| | | |
|---|---|---|
| *Communication lines* | *Production Command lines* | *Administration Ethics* |

12. Can produce and sell an exchangeable product ethically for a profit.

13. Participates competitively in two team sports.

1. Can take a small garden from tillage to harvest; can raise a plant hydroponically.

2. Can responsibly care for livestock in most situations.

3. Can manage an aquaculture or greenhouse facility.

4. Can use a microscope well in investigations (and understands optics of microscopes).

5. Can ensure that milk and water are safe to drink.

6. Can survive well in the wilds for a week.

7. Can build a methane generator, solar heater, and windmill.

8. Can survey with transit and chain, also use sextant and charts to locate position on planet (or time of night) and directions.

9. Can chart a planet's course across the sky.

10. Can use a slide rule.

11. Can do simple computer programming to solve real problems.

12. Can build a dome.

13. Can set up and solve single variable and simultaneous algebraic equations (through quadratics) to predict physical phenomena; can plot simple functions.

14. Can determine broad geologic history of area from observations.

15. Can make a reflecting telescope, crystal radio, telephone and spectroscope.

16. Can take and develop good color photographs and slides.

17. Can compute probabilities and handle statistics.

18. Can draw good maps (geometry - bisect angles, etc.).

19. Can set the timing of an internal combustion engine and do minor repair work.

20. Can demonstrate understanding of continental drift and predict earthquake regions.

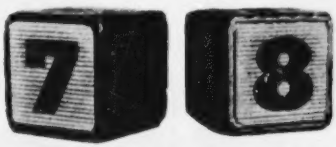
21. Can use prisms and filters to get lighting effects.

22. Can demonstrate understanding of how a refrigerator works.

23. Can demonstrate understanding of why you get beats in sound waves.

24. Can explain tidal pattern.

25. Can explain lightning.




1. Creates well in three of the following art forms:

| | | |
|---|---|---|
| *Music* | *Drawing* | *Weaving* |
| *Ceramics* | *Painting* | *Wood carving* |
| *Writing* | *Sculpture* | *Folk dances* |
| *Poetry* | *Jewelry* | *Textiles* |

2. Can demonstrate understanding of several ethical codes.

3. Familiar with Man's major religions.

4. Well read in a variety of literary forms and writes well in several literary forms.

# High School

## Dynamics

1. Can maintain excellent health and appearance in self and others.

| | | |
|---|---|---|
| *Advanced First Aid* | *Exercise* | *Personal Grooming* |
| *Human Anatomy and Physiology* | *Drugs* | *Clothing (Purchasing and Care)* |
| *Nutrition* | *Medicine and the Medical Profession* | *Sewing* |
| | *Cooking* | |

2. Can create, maintain and enhance a functional and attractive living environment.

| | | |
|---|---|---|
| *Home Maintenance and Repair* | *Principles of Design* | *Interior Decoration* |

3. Can plan and manage income and expenses for self and family.

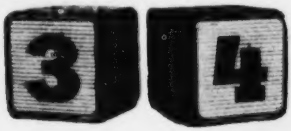
| | | |
|---|---|---|
| *Bank Accounts* | *Loans* | *Comparative Shopping* |
| *Budgets* | *Taxes* | *Investments* |

4. Can raise children to be responsible, creative, and happy.

| | | |
|---|---|---|
| *Communication* | *Ethics* | *Child Care* |

5. Can participate competitively in at least two individual sports.

| | | |
|---|---|---|
| *Track and Field* | *Marksmanship* | *Horsemanship* |
| *Tennis* | *Swimming* | *Archery* |
| *Skiing* | | |




1. Can communicate at an excellent level in both written and spoken English.

| | | |
|---|---|---|
| *Grammar* | *Journalism* | *Public Speaking* |
| *Composition* | *Research Papers* | *Literature* |
| *Language* | *Creative writing* | |

2. Can communicate (speak, read and write) in two languages besides native.

| | | |
|---|---|---|
| *French* | *Spanish* | *German* |
| *Latin* | *Greek* | |

3. Can interact responsibly with governments, groups, and other individuals under the law.

| | | |
|---|---|---|
| *Local, State and Federal Government* | *Civil and Criminal Law* | *Elections and Political Parties* |
| *Constitution and Bill of Rights* | *Courts and the Judicial Process* | *International Law* |

4. Can evaluate regional, national, and international news to determine truth, relative importances, and impact of events.

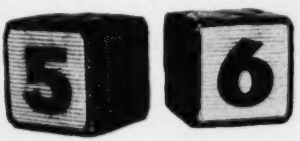
| | | |
|---|---|---|
| *Regional, National, and World History (with attention to causes and effects)* | *Economics* | *Media* |
| | *Money Resources* | *Public Relations* |
| | *Balance of Payments* | *World Government* |
| | *Taxes and Budgeting* | *Exploration and Discovery* |
| *Regional, National, and Global Geography (physical and cultural)* | *International Banking* | *Book Lists (20-30 books in world literature)* |

5. Can manage all aspects of a small business.

| | | |
|---|---|---|
| *Management and Supervision* | *Public Relations and Promotion* | *Business Math* |
| *Communication* | *Production and Quality Control* | *Business Law* |
| *Economics* | | *Sales* |

6. Can participate competitively in two team sports.

| | | |
|---|---|---|
| *Football* | *Baseball* | *Basketball* |
| *Volleyball* | *Softball* | *Soccer* |




1. Can plan and manage a garden for production.

| | | |
|---|---|---|
| *Soil Chemistry* | *Composting and Fertilization* | *Economics* |
| *Biology and Biochemistry* | *Agriculture* | *Marketing* |

2. Can care for and manage livestock for production.

| | | |
|---|---|---|
| *Animal Health* | *Economics* | *Marketing* |
| *Feeds* | *Breeding* | |

3. Can design, help build, and operate a small greenhouse or aquaculture facility (with electricity and plumbing).

*Biology* *Electricity* *Construction*
*Systems* *Algebra, Geometry,* *Control Systems*
*Physics* *and Trigonometry*

4. Can manage a natural ecosystem for production.

*Ecology* *Wildlife Surveying* *Forestry*
*Limnology*

5. Can design, help build, and operate an energy production system (wind turbine, solar heater, methane generator).

*Control Systems* *Construction* *Algebra, Geometry,*
*Physics* *Instrumentation* *Trigonometry*

6. Can predict broad geological, meteorological, and astronomical phenomena.

*Geology* *Climatology* *Weather Observation*
*Seismology* *Astronomy* *and Prediction*
*Plate Tectonics* *Cosmology*

7. Can build an electronic calculator and explain its operation.

*Electronics* *Computer Logic*

8. Can design and build structures and devices that depend on wave phenomena (e.g., a loudspeaker, a radio antenna, a shock absorber, etc.).

*Algebra* *Calculus* *Acoustics*
*Geometry* *(Introductory)* *Radiation*
*Trigonometry* *Optics*

9. Can design, build, and decorate a simple habitation.

1. Can create at a professional level in at least one art form.

*Ceramics* *Jewelry Making* *Drama*
*Painting and* *Weaving* *Music*
*Drawing* *Writing* *Vocal*
*Sculpture* *Poetry* *Instrumental*

2. Can create as a skilled amateur in at least two other art forms.

3. Can evaluate a code of ethical conduct to determine why a particular code is useful, and acts according to one that demonstrably improves survival.

*Ethics*

4. Can evaluate a philosophy in terms of its workability, from a knowledge of several well known philosophies.

*Philosophy*

5. Can compare Man's major religions from an understanding of how those religions developed.

*Religions* *Concepts of God*

6. Can write competently in the major literary forms, from an understanding of the literary tradition.

*Book lists (20-30 books)* *Drama* *Poetry* *Fiction* *Essays*

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